

### Amendments to the Claims

Kindly amend the claims as follows:

1-2 (canceled)

3. (previously presented) A chimeric protein heterodimer complex, wherein a chimeric protein comprises an  $\alpha$  chain • immunoglobulin heavy chain- $\beta$  chain • immunoglobulin heavy chain chimeric protein heterodimer complex, wherein a chimeric protein comprising the  $\alpha$  chain of an integrin and the heavy chain of an immunoglobulin and a chimeric protein comprising the  $\beta$  chain of the integrin and the heavy chain of the immunoglobulin are bound to each other by a disulfide bond between the heavy chains and stably associated with its function retained, and wherein the  $\alpha$  chain of an integrin is  $\alpha 4$  or  $\alpha 2$  and the  $\beta$  chain is  $\beta 1$ .

4-6 (canceled)

7. (currently amended) A chimeric protein heterodimer complex, according to claim 3, wherein the chimeric protein comprising the  $\alpha 4$  of said integrin and the heavy chain of said immunoglobulin comprises the amino acid sequence of encoded by SEQ ID NO:1.

8. (currently amended) A chimeric protein heterodimer complex, according to claim 3, wherein the chimeric protein comprising the  $\alpha 2$  of said integrin and the heavy chain of said immunoglobulin comprises the amino acid sequence of encoded by SEQ ID NO:19.

9. (currently amended) A chimeric protein heterodimer complex according to claim 3, wherein the chimeric protein comprising the  $\beta 1$  of said integrin and the heavy chain of said immunoglobulin comprises the amino acid sequence of encoded by SEQ ID NO:2.

10-24 (canceled)

25. (previously presented) A drug composition, comprising a chimeric protein heterodimer complex of in claim 3.

26-49 (canceled)

50. (previously presented) A chimeric protein heterodimer complex according to claim 3, wherein the  $\alpha$  chain of said integrin and the  $\beta$  chain of said integrin are polypeptides derived from an extracellular portion, and wherein the heavy chain of said immunoglobulin is connected to a C terminus of both the  $\alpha$  chain and the  $\beta$  chain of said integrin.

51 (canceled)

52. (previously presented) The chimeric protein heterodimer complex, according to claim 3, wherein the  $\alpha$  chain is  $\alpha 2$ .